

Title (en)
INTERFERENCE MITIGATION IN A FEMTOCELL ACCESS POINT

Title (de)
INTERFERENZUNTERDRÜCKUNG BEI EINEM FEMTOZELLEN-ZUGANGSPUNKT

Title (fr)
ATTÉNUATION D'INTERFÉRENCE DANS UN POINT D'ACCÈS FEMTOCELLULAIRE

Publication
EP 2452517 A1 20120516 (EN)

Application
EP 10720458 A 20100428

Priority
• GB 2010050695 W 20100428
• GB 0911771 A 20090707

Abstract (en)
[origin: GB2471681A] A base station in a cellular network, such as a femtocell access point, has a first coverage area, and is located in a second coverage area associated with a second base station. The base station operates to detect a possibility of interference based on estimated first path losses, between the base station and points in the first coverage area, and a second path loss, between the base station and a user equipment that is attached to the second base station. The second path loss may be estimated in the base station by: estimating the average transmit power of the user equipment; detecting in the base station signals transmitted by the user equipment; and estimating the second path loss from a difference between the estimated average transmit power and the power of the detected signals transmitted by the user equipment. If it is determined that the base station is causing interference a user may be notified or transmitted power may be reduced.

IPC 8 full level
H04W 24/08 (2009.01)

CPC (source: EP GB US)
H04W 24/08 (2013.01 - EP US); **H04W 52/242** (2013.01 - GB); **H04W 52/244** (2013.01 - EP US); **H04B 17/318** (2015.01 - EP US); **H04B 17/327** (2015.01 - EP US); **H04W 24/02** (2013.01 - EP US); **H04W 52/225** (2013.01 - EP US); **H04W 52/242** (2013.01 - EP US); **H04W 72/541** (2023.01 - EP US); **H04W 84/045** (2013.01 - EP US)

Citation (search report)
See references of WO 2011004169A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
GB 0911771 D0 20090819; **GB 2471681 A 20110112**; **GB 2471681 B 20111102**; CN 102474742 A 20120523; CN 102474742 B 20150506; EP 2452517 A1 20120516; EP 2452517 B1 20180919; JP 2012533202 A 20121220; JP 5723875 B2 20150527; US 2011009065 A1 20110113; US 8798545 B2 20140805; WO 2011004169 A1 20110113

DOCDB simple family (application)
GB 0911771 A 20090707; CN 201080030604 A 20100428; EP 10720458 A 20100428; GB 2010050695 W 20100428; JP 2012519058 A 20100428; US 82235410 A 20100624